

WHAT IS CLAIMED IS:

1. A recording tape cartridge comprising:

a reel having a reel hub on which a recording tape is wound, and gear teeth are provided at an inner side of a floor portion of the reel hub;

a case which accommodates the reel, and an engaging projection is formed at a surface of the case opposing the floor portion of the reel hub;

a braking member having a disc, and a braking gear, which is annular and which can mesh with the gear teeth, is provided at one surface of the disc, and the braking member approaches and moves away from the floor portion of the reel hub within the case so as to be able to be positioned at a meshing position, at which the braking gear meshes with the gear teeth, and a released position at which a meshed state is released; and

a groove wall portion standing erect at the disc and forming an insertion groove in which the engaging projection enters over an entire stroke of movement of the braking member, and the groove wall portion impedes rotation of the braking member with respect to the case, and guides the braking member in directions of approaching and moving away from the floor portion of the reel hub,

wherein the disc has a through hole into which enters a distal end of the engaging projection which has entered into the

insertion groove when the braking member is positioned at the released position.

2. The recording tape cartridge of claim 1, wherein the engaging projection has a length such that the engaging projection passes through the through hole when the braking member is positioned at the released position.

3. The recording tape cartridge of claim 1, wherein the gear teeth are formed directly at the floor portion of the reel hub.

4. The recording tape cartridge of claim 1, wherein the reel hub further has a plurality of projections formed discretely and so as to be spaced apart evenly at the floor portion, and the gear teeth are formed at the plurality of projections.

5. The recording tape cartridge of claim 1, further comprising an urging mechanism which is provided between the braking member and a ceiling plate of the case, and which urges the braking member to the meshing position.

6. The recording tape cartridge of claim 1, further comprising a releasing member which is provided between the braking member and the floor portion of the reel hub, and which moves the braking member toward the released position.

7. The recording tape cartridge of claim 1, wherein the insertion groove is formed to have substantially a same configuration as the engaging projection.

8. The recording tape cartridge of claim 1, wherein the engaging projection is formed in a polygonal shape.

9. The recording tape cartridge of claim 8, wherein the engaging projection is formed in a cross-shape.

10. A recording tape cartridge comprising:

a reel, and gear teeth are provided at an inner side of a floor portion of a reel hub on which a recording tape is wound;

a case which accommodates the reel, and an engaging projection is formed at a surface of the case opposing the floor portion of the reel hub;

a braking member having a disc, and a braking gear, which is annular and which can mesh with the gear teeth, is provided at one surface of the disc, and the braking member can move within the case in a direction of thickness of the case; and

a groove wall portion standing erect at the disc and demarcating an insertion groove in which the engaging projection enters over an entire stroke of movement of the braking member,

wherein the groove wall portion impedes rotation of the

braking member with respect to the case, and guides movement of the braking member.

11. The recording tape cartridge of claim 10, wherein the gear teeth are formed directly at the floor portion of the reel hub.

12. The recording tape cartridge of claim 10, wherein the reel hub further has a plurality of projections formed discretely and so as to be spaced apart evenly at the floor portion, and the gear teeth are formed at the plurality of projections.

13. The recording tape cartridge of claim 10, wherein the braking member is movable between a meshing position at which the braking gear meshes with the gear teeth, and a released position at which a meshed state is released.

14. The recording tape cartridge of claim 13, further comprising a releasing member which is provided between the braking member and the floor portion of the reel hub, and which moves the braking member toward the released position.

15. The recording tape cartridge of claim 13, further comprising an urging mechanism which is provided between the braking member and a ceiling plate of the case, and which urges the braking member to the meshing position.

16. The recording tape cartridge of claim 13, wherein the engaging projection is formed in a polygonal shape.

17. The recording tape cartridge of claim 13, wherein the disc has a through hole into which enters a distal end of the engaging projection which has entered into the insertion groove when the braking member is positioned at the released position.

18. The recording tape cartridge of claim 17, wherein the engaging projection has a length such that the engaging projection passes the through hole when the braking member is positioned at the released position.

19. A method of manufacturing a recording tape cartridge having a locking mechanism locking a reel which is accommodated in a case and on which a recording tape is wound, the method comprising the steps of:

a. forming gear teeth at an inner side of a floor portion of a reel hub of the reel;

b. forming an engaging projection at a surface of the case which surface opposes the floor portion of the reel hub;

c. forming a braking member having a disc, and a braking gear, which is annular and which can mesh with the gear teeth, is provided at one surface of the disc, and a groove wall portion, which

demarcates an insertion groove into which the engaging projection enters, stands erect at the disc, and the braking member can approach and move away from the floor portion of the reel hub within the case; and

d. combining the braking member and the reel within the case.

20. The method of manufacturing a recording tape cartridge of claim 19, wherein the engaging projection is formed in a polygonal shape.